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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/271,411	03/17/1999	M. ALLEN NORTHRUP	22660-0009P1	4121	
20350	7590 06/09/2004	EXAMINER		INER	
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER			MARSCHEL, ARDIN H		
EIGHTH FL		OCENTER		PAPER NUMBER	
SAN FRANC	SAN FRANCISCO, CA 94111-3834			1631	
			DATE MAILED: 06/09/2004	DATE MAILED: 06/09/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/271,411	NORTHRUP ET AL.			
		Examiner	Art Unit			
		Ardin Marschel	1631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to com	1) Responsive to communication(s) filed on 22 March 2004.					
2a)⊠ This action is <b>FINA</b>	.L. 2b) ☐ This	action is non-final.				
/ <del></del>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>45-55 and 57-71</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
5)  Claim(s) is/are allowed. 6)  Claim(s) <u>45-50,52-55,57,58,60, and 62-70</u> is/are rejected.						
						·
8) Claim(s) are	subject to restriction and/or	election requirement.				
Application Papers	•					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (F		4) Interview Summary				
· ·	nt Drawing Review (PTO-948) nent(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5)  Notice of Informal Pa 6)  Other:	atent Application (PTO-152)			

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## **DETAILED ACTION**

Applicants' arguments, filed 3/22/04, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

## **PRIOR ART**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 45-50, 52-55, 57, 58, 60, and 62-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Handique et al. (6,130,098).

This rejection is maintained and reiterated from the previous office action, mailed 9/22/03, only to the extent of the 103(a) rejection basis. It is acknowledged that Handique et al. describes a number of flow control alternatives, one of which is via valves. As such this specie of flow control alternatives is reasonably interpreted as

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being motivated and suggested as a clearly described option in a more generic disclosure and thus continues to support this rejection. Applicants admit that Handique et al. describes valves therein, but fail to address the basis for this rejection that the usage of a valve in various channels or microchannels between chambers as desired is clearly suggested in column 12, lines 3-4; column 12, lines 30-44; and column 16, lines 41-61. These optional microchannel flow control practices are deemed to still support this rejection based on obviousness.

Claims 45-50, 52-55, 57, 58, 60, and 62-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Handique et al. (6,130,098), taken in view of Wilding et al. (P/N 5,587,128), or, alternatively, Wilding et al. (5,587,128), taken in view of Handique et al. (P/N 6,130,098).

This rejection is maintained and reiterated from the previous office action, mailed 9/22/03. No other arguments were set forth against this rejection than those already responded to above and are equally non-persuasive regarding this rejection and reiterated hereinunder.

## **CLAIM OBJECTIONS**

Claims 51, 59, 61, and 71 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (571) 272-0718. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (571) 272-0722.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

June 7, 2004

ARDIN H. MARSCHEL PRIMARY EXAMINER